

# Purchase Order Receipt Listing

Tuesday, September 20, 2016 11:39:47 AM

Page 1 of 2

All amounts are calculated in domestic currency.

All Vendors PO ID PO33636 Receipt Dates from 9/16/2016 to 9/16/2016 All Line Item Types  
All Item ID/GL/WOs All Rec. Employees All Currencies  
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
<b>Vendor ID: VU-TW/M001 TW Metals</b>											
PO33636	1		M304TR0.750W.049 f		9/21/2016	9/16/2016	60.0000		0.0000	0	\$0.00
USD	No		304 RD Tube .750 x f .049W		60.0000	PLOU01			0.0000	0	
			m135709								
	2		M4130NT0.750W.049 f		9/21/2016	9/16/2016	24.0000		0.0000	0	\$0.00
	No		4130 RD Tube .750 x.049W		20.0000	PLOU01			0.0000	0	
			m135709								
	3		M4130NT1.000W.12 f 123		9/21/2016	9/16/2016	21.0000		0.0000	0	\$0.00
	No		4130 RD Tube 1.00 x f .120W.12		20.0000	PLOU01			0.0000	0	
			m135709								
	4		M6061T612.00W.0.12 f .123		9/21/2016	9/16/2016	24.0000		0.0000	0	\$0.00
	No		6061T6 RD TUBE f 2.00X.125W		24.0000	PLOU01			0.0000	0	
			m135709								
	5		71400-15 Each		9/21/2016	9/16/2016	80.0000		0.0000	0	\$0.00
	No		304 round tubing 0.375X.035" WALL (SEAMLESS)		80.0000	PLOU01			0.0000	0	
			m135709								
	6		71401-45		9/21/2016	9/16/2016	1.0000		0.0000	0	\$0.00
	No		PROCUREMENT QUALITY CLAUSES		1.0000	PLOU01			0.0000	0	
			m135709								

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Total Received Quantity:											210.0000
Total Qty to Inspect (PO U/M):											0.0000
Total Reject Quantity:											0.0000
Total Receipt Value:											\$0.00
Total Balance Due Quantity:											0.0000



O'Neal High-Performance Metals Group



# Packing Slip

ORDER NO.: 60614407

FROM: CRAN

PAGE 1

CUST NUMBER: 1203820 NET WGT: 85.437 REQ.DATE: 09/21/16 CONFIRMED  
SOLD TO: SHIP TO:  
DART AEROSPACE LTD DART AEROSPACE LTD  
1270 ABERDEEN ST 1270 ABERDEEN ST  
HAWKESBURY ON HAWKESBURY ON  
CANADA CN K6A 1K7 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 09/15/16  
TERMS: NET 30 DAYS VIA: COMMON CARRIER  
F.O.B.: SHIPPING POINT FREIGHT: PREPAID  
CUST ORD NO.: PO33636 RELEASE NO.:  
RECEIVING PHONE:

LINE	ITEM DESCRIPTION	WIDTH	LENGTH
0001	36860 SMLS CD 304/L A269 3/4 OD X .049 WA		20' CL

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	60.000 FT	60.000 FT	60.000 FT	22.003	3

\*\* 1 TEST REPORTS REQUIRED \*\*

\*\* 1 CERTS REQUIRED \*\*

ECCN: 2B999.g Export License: NLR Expiration Date: 0/00/00  
PO:49339072 HT:YX1501783 PC: 3 CUSTOMER QTY: 60.000 UOM FT  
MLT:CHINA MFG:CHINA SLB/CL:9-110

LINE	ITEM DESCRIPTION	WIDTH	LENGTH
0002	33047 CDS 4130 6736 3/4 X .049		17/24 FT

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	20.000 FT	24.000 FT	24.000 FT	8.801	1

\*\* 1 TEST REPORTS REQUIRED \*\*

\*\* 1 CERTS REQUIRED \*\*

ECCN: 9A991.d Export License: NLR Expiration Date: 0/00/00  
PO:49349405 HT:597607 PC: 1 CUSTOMER QTY: 24.000 UOM FT  
MLT:GERMANY MFG:GERMANY SLB/CL:1623145

LINE	ITEM DESCRIPTION	WIDTH	LENGTH
0003	33364 SMLS CD 4130 RD 6736 1 X .120		17/24 FT

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	20.000 FT	21.000 FT	21.000 FT	23.688	1

\*\* 1 TEST REPORTS REQUIRED \*\*

\*\* 1 CERTS REQUIRED \*\*

ECCN: 9A991.d Export License: NLR Expiration Date: 0/00/00  
PO:49354259 HT:MM16101444 PC: 1 CUSTOMER QTY: 21.000 UOM FT  
MLT:UNITED STATES MFG:UNITED STATES SLB/CL:143275

Sp/16-9-20

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL REVIEW.  
<http://www.twmetals.com/invoice-terms.html>



O'Neal High-Performance Metals Group



# Packing Slip

ORDER NO.: 60614407

FROM: CRAN

PAGE 2

CUST NUMBER: 1203820 NET WGT: 85.437 REQ.DATE: 09/21/16 CONFIRMED  
SOLD TO: SHIP TO:  
DART AEROSPACE LTD DART AEROSPACE LTD  
1270 ABERDEEN ST 1270 ABERDEEN ST  
HAWKESBURY ON HAWKESBURY ON  
CANADA CN K6A 1K7 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 09/15/16  
TERMS: NET 30 DAYS VIA: COMMON CARRIER  
F.O.B.: SHIPPING POINT FREIGHT: PREPAID  
CUST ORD NO.: PO33636 RELEASE NO.:  
RECEIVING PHONE:

LINE ITEM DESCRIPTION WIDTH LENGTH  
0004 44622 D6061-T6 2 OD X .125 WA 12 FT ML

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT
	24.000 FT	24.000 FT	24.000 FT	20.779

PCS  
2

\*\* 1 TEST REPORTS REQUIRED \*\*  
\*\* 1 CERTS REQUIRED \*\*

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00  
PO:49331550 HT:22077584 PC: 2 CUSTOMER QTY: 24.000 UOM FT  
MLT:UNITED STATES MFG:UNITED STATES SLB/CL:1000538251

0005 36225 SMLS CD 304/L A269 3/8 X .035 WA 20' ML

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT
	80.000 FT	80.000 FT	80.000 FT	10.166

PCS  
4

\*\* 1 TEST REPORTS REQUIRED \*\*  
\*\* 1 CERTS REQUIRED \*\*

ECCN: 2B999.g Export License: NLR Expiration Date: 0/00/00  
PO:49342547 HT:YX1509583 PC: 4 CUSTOMER QTY: 80.000 UOM FT  
MLT:CHINA MFG:CHINA SLB/CL:4-57

BROKERS KUEHNE AND NAGEL LTD

AREA	TYPE OF PKG	PKGS	GRS WEIGHT	WIDTH	LENGTH	HGHT
B	CARTON	1.000	94.000		12.5000	
B	CARTON	1.000			24.5000	
		2.000	94.000			

BY: TW

THANK YOU FOR THIS ORDER

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O'Neal High-Performance Metals Group



**Packing  
Slip**

ORDER NO.: 60614407

FROM: CRAN

PAGE 3

CUST NUMBER: 1203820    NET WGT:  
SOLD TO:  
DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY ON  
CANADA                      CN K6A 1K7

85.437    REQ.DATE: 09/21/16    CONFIRMED  
SHIP TO:  
DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKSURY ON  
ONTARIO CANADA                      CN K6A 1K7

SALESPERSON:            DONNA SMALLEY  
TERMS:                    NET 30 DAYS  
F.O.B.:                    SHIPPING POINT  
CUST ORD NO.:            PO33636

SHIP BY:                      09/15/16  
VIA:                          COMMON CARRIER  
FREIGHT:                    PREPAID  
RELEASE NO.:  
RECEIVING PHONE:

LINE    ITEM DESCRIPTION  
RT 000-

                                WIDTH            LENGTH  
UNLOAD TYPE: NONE SPECIFIED

DATE SHIPPED \_\_\_\_\_

DATE FILLED \_\_\_\_\_

**THANK YOU FOR THIS ORDER**

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE  
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O'Neal High-Performance Metals Group



**Packing  
Slip**

ORDER NO.: 60614407

FROM: CRAN

PAGE 4

CUST NUMBER: 1203820 NET WGT: 85.437 REQ.DATE: 09/21/16 CONFIRMED  
SOLD TO: SHIP TO:  
DART AEROSPACE LTD DART AEROSPACE LTD  
1270 ABERDEEN ST 1270 ABERDEEN ST  
HAWKESBURY ON HAWKESBURY ON  
CANADA CN K6A 1K7 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 09/15/16  
TERMS: NET 30 DAYS 27 ENGLEHARD DRIVE  
F.O.B.: SHIPPING POINT MONROE TWP NJ 08831  
CUST ORD NO.: PO33636  
VIA: COMMON CARRIER  
FREIGHT: PREPAID  
RELEASE NO.:  
RECEIVING PHONE:

"TW Metals MSDS data is available on our web site at [www.twmetals.com](http://www.twmetals.com). MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

**"CERTIFICATE OF CONFORMANCE"**

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

**Electronically Generated Document-Valid Without Signature** Date: 9/14/16

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

**THANK YOU FOR THIS ORDER**

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE  
PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL  
REVIEW.  
<http://www.twmetals.com/invoice-terms.html>

## MILL TEST REPORT

Purchaser.: TW METALS-Cranbury				Certificate No.: 15-11-44					
Contract No.: TWMP.O.No.: M49339072				Date of Issue.: 2015.11.5					
Commodity: Stainless Steel Seamless Tubes				Specifications: ASTM A213-15/ASME SA213-13/ASTM A269-14el EAW					
Process: Cold Drawn				Delivery Condition: OD Polished to 240 Grit					
Steel Grade	Heat Number	Lot Number	Dimensions			Quantity			
						Pieces	Feet		
TP304/TP304L	YX1501-783	9-110	3/4" x 0.049" x 20'			250	5,000		
Chemical Composition by Weight (%)									
Element	C	Mn	P	S	Si	Cr	Ni	Mo	Co
Requirements	≤0.035	≤2.00	≤0.045	≤0.030	≤1.00	18.00-20.00	8.00-12.00	-	-
Ladle Analysis	0.012	0.68	0.031	0.001	0.37	18.35	8.05	-	-
Product Analysis	0.019	0.70	0.033	0.002	0.39	18.37	8.31	-	-
Mechanical Properties									
Test Item	Elongation (% in 2")		Tensile Strength (PSI) Rm			Yield Strength (PSI) Rp / 0.2%			
Requirements	≥35		≥75,000			≥30,000			
Test Results	63/64		88,000/89,000			33,000/34,000			
Test Item	Reduction of Area Z (%)	Hardness	Cold Bend Test	Flaring Test	Flattening Test	Flange Test	P.M.I. Test		
Requirements	-	HRB≤80	-	22%	e=0.09	-	-		
Test Results	-	75/77	-	Passed	Passed	-	OK		
Test Item	Eddy Current Test	Air Underwater Pressure Test	Ultrasonic Test	Intergranular Corrosion Test	Macroscopic Inspection				
Requirements	ASTM E 426	-	-	ASTM A262 E	End Cut	Appearance			
Test Results	Passed	-	-	OK	OK	OK			

ISO 9001:2008 Certified by Intertek 110703068

PED Certified by SZUTEST 2195-PED-1526002

## Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-14
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed
- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

**CANNOT CERTIFY COMPLIANCE  
FAR BAA / DFARS BAA / FAR TAA**



By:

James Shi

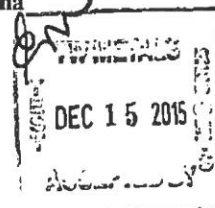
James Shi / Manager

Quality Control Department

We hereby certify that this report is true and correct.

Shanghai Pufa Stainless Steel Pipe Factory

No. 59, Shuangye Road, Wanggang, New Pudong District, Shanghai, China





## MILL TEST REPORT

Purchaser.: TW METALS-Carol Stream				Certificate No.: 16-4-104					
Contract No.: TWM P.O.No.: M49342547				Date of Issue.: 2016.5.11					
Commodity: Stainless Steel Seamless Tubes		Specifications: ASTM A213-15c/ASME SA213-15/ASTM A269-15a EAW							
Process: Cold Drawn				Delivery Condition: OD Polished to 240 Grit					
Steel Grade	Heat Number	Lot Number	Dimensions		Quantity				
					Pieces	Feet			
TP304/TP304L	YX1509-583	4-57	3/8" x 0.035" x 20'		950	19,000			
Chemical Composition by Weight (%)									
Element	C	Mn	P	S	Si	Cr	Ni	Mo	Co
Requirements	≤0.035	≤2.00	≤0.045	≤0.030	≤1.00	18.00-20.00	8.00-12.00	-	-
Ladle Analysis	0.025	0.61	0.030	0.002	0.34	18.31	8.05	-	-
Product Analysis	0.021	0.57	0.032	0.002	0.33	18.78	8.52	-	-
Mechanical Properties									
Test Item	Elongation (% in 2")		Tensile Strength (PSI) Rm		Yield Strength (PSI) Rp / 0.2%				
Requirements	≥35		≥75,000		≥30,000				
Test Results	63/64		93,000/94,000		43,000/44,000				
Test Item	Reduction of Area Z (%)	Hardness	Cold Bend Test	Flaring Test	Flattening Test	Flange Test	P.M.I. Test		
Requirements	-	HRB≤80	-	22%	e=0.09	-	-		
Test Results	-	76/78	-	Passed	Passed	-	OK		
Test Item	Eddy Current Test	Air Underwater Pressure Test	Ultrasonic Test	Intergranular Corrosion Test	Macroscopic Inspection				
Requirements	ASTM E 426	-	-	ASTM A262 E	End Cut	Appearance			
Test Results	Passed	-	-	OK	OK	OK			

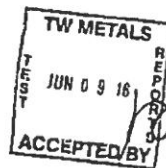
ISO 9001:2008 Certified by Intertek 110703068

PED Certified by SZUTEST 2195-PED-1526002

## Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-14
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed
- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

**CANNOT CERTIFY COMPLIANCE  
FAR BAA / DFARS BAA / FAR TAA**



By:



James Shi

James Shi / Manager

Quality Control Department

We hereby certify that this report is true and correct.

Shanghai Pufa Stainless Steel Pipe Factory

No. 59, Shuangye Road, Wanggang, New Pudong District, Shanghai, China

A





Alcoa Forgings and Extrusions  
Lafayette Operations  
3131 East Main Street  
Lafayette, IN  
47905-7500

Alcoa, Inc.

Invoice To Customer  
TW METALS INC  
THE ARBORETUM SUITE 204  
760 CONSTITUTION DR  
EXTON, PA - 19341

Ship To Customer  
TW METALS INC  
235 W. TUBEWAY  
CAROL STREAM, IL - 60188



## Certified Inspection Report

Sales Order Number		Customer P/O	Cert Number AEP1705290	Page 1/3
Line No.				
1000538251	7.1	49331550-001 / ITEM 44622	10-NOV-15	10-NOV-15

Quantity Shipped		Date Shipped	Item Description
1495	LB	10-NOV-15	Drawn Tube OD X WALL 2.000 OD x 0.125 WALL
B/L		Item No.	144 IN LN
2265232		G03346426	6061 / T6
Delivery ID		Item No. Rev	W/F 0.866
10407152			Marking CONTINUOUS; Oiling NO
Customer Part No			AMS4082 REV P
			AMS-WW-T-700/6 REV B
			ASTMB210 REV 12
			CP49-7.42-003 REV 8
			WW-T-700/6 REV F, AM2, NOT1
			AS9100 REV C
			MMS1440 REV A

### Notes

The material for this order was melted and manufactured in USA.  
COMPOSITION NOTE: The values for 'Others Each' and 'Others Total' have met the limits as shown on this certified inspection report. Remainder is Aluminum.

### Legal Statement

We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and tested in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition and had the mechanical properties shown on the face of this certification. Also, note that mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assurance Dept.

### Signature And Title

*Melissa Griffith*

Melissa Griffith  
Quality Control Manager  
10-NOV-15

### Quantities per Lot / Packages

Package Number	Lot Number	Quantity	UOM	Weight	
				Gross	Net
G17-PKG713426	21470076	18	PCS	203	187
G17-PKG754823	22077584	31	PCS	343	322
G17-PKG754824	22077584	31	PCS	343	322
G17-PKG754828	22077584	32	PCS	352	332
G17-PKG754829	22077584	32	PCS	352	332

### Composition Limits

Alloy	Wt %	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6061	Min	0.40	---	0.15	---	0.8	0.04	---	---
	Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15

### Others Total

Alloy	Wt %	Others Each
6061	Min	---
	Max	0.05



Alcoa Forgings and Extrusions  
Lafayette Operations  
3131 East Main Street  
Lafayette, IN  
47905-7500

## Certified Inspection Report

Sales Order Number		Customer P/O		Cert Number	Page
1000538251	Line No.	7.1	49331550-001 / ITEM 44622	AEPI705290	2/3
				10-NOV-15	Cert Print Date
				10-NOV-15	10-NOV-15

### Composition Results

Heat / Cast / Lot Number	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
7525-L7	0.6	0.22	0.26	0.04	1.0	0.05	0.05	0.02
7802-L03	0.6	0.20	0.26	0.04	0.9	0.05	0.07	0.02

### Composition Results

Heat / Cast / Lot Number	Others Each	Others Total
7525-L7	--	--
7802-L03	--	--

### Mechanical Property - Test Results

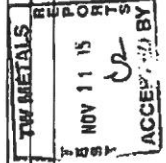
Test Type		UTS - L	TYS - L	EL 4D-Long
UOM		KSI	KSI	PCT
# of Tests				
Test Temper	Lot Number	Piece / Test ID	Results	Results
T6	21470076	1-F	46.8	20.5
T6	22077584	1-P	45.3	22.7
T6	22077584	2-R	45.2	23.0

### Other - Test Limits

Test Type		Dimensional	
UOM			
# of Tests			
Test Temper	Lot Number	Min	Max
T6	SPEC LIMITS	P	---

### Other - Test Results

Test Type		Dimensional	
UOM			
# of Tests			
Test Temper	Lot Number	Results	
T6	21470076	P	
T6	22077584	P	



ALCOA  
ALCOA Forgings and Extrusions  
Lafayette Operations  
3131 East Main Street  
Lafayette, IN  
47905-7500

## Certified Inspection Report

Sales Order Number		Customer P/O	Cert Number AEP1705290	Page 3/3
1000538251	Line No. 7.1			
49331550-001 / ITEM 44622			10-NOV-15	Cert Print Date 10-NOV-15

### Cert Notes

Made in USA

The test report shall not be reproduced except in full, without the written approval of the Quality Department. No alteration, addition or other change is authorized to be made to this certificate. The recording of false, fictitious, or otherwise fraudulent statements or entries on this certificate by any recipient may be punished as a felony under applicable law.



Benteler Steel/Tube GmbH  
Postfach 13 40  
33043 Paderborn  
Deutschland  
Tel.: +49.5254.81-0 Fax: +49.5254.13666

**BENTELER**

Steel/Tube

ABNAHMEPRÜFZEUGNIS EN 10204-3.1  
INSPECTION CERTIFICATE EN 10204-3.1  
CERTIFICAT DE RECEPTION EN 10204-3.1  
EN 10204:2005-01

Benteler Steel/Tube GmbH - Postfach 1340 - 33043 Paderborn - Deutschland

TW Metals  
The Aboretum, Suite 204  
760 Constitution Drive  
EXTON PA 19341  
USA

Dokument-Nr.: 41-952074/001/P

Document No.:

No. du document:

Kunden-Bestell-Nr.:

Purchase Order No.:

No. de commande du client:

Benteler Auftrags-Nr.:

Benteler Order No.:

No. de commande Benteler:

Versandanzeigen-Nr.:

Dispatch Note No.:

No. d'avis d'expédition:

Produkt: NAHTLOSE STAHLROHRE

Product: SEAMLESS STEEL TUBES

Produit: TUBES D'ACIER SANS SOUDURE

46004191 TW M49349405

1623145

4165430

Prüf-Nr.:

Inspection No.:

No. du certificat:

Hersteller:

Manufacturer:

Producteur:

Herstellerzeichen:

Manufacturer's brand:

Marque du producteur:

Stempel des Abnahmebeauftragten:

Stamp of the inspection representative:

Poinçon du contrôleur:

Stahlerschmelzungsverfahren:

Steelmaking process:

Procédé d'élaboration de l'acier:

AMS-T-6736B Type 1, ASTM-A 519-2006, MIL-T-6736B Type 1, AMS6360 Rev. M

Lieferbedingungen:

Terms of delivery:

Conditions de livraison:

Maße - Toleranzen:

Dimensions-tolerances:

Dimensions-tolérances:

Stahlsorte:

Steel grade:

Nuance d'acier:

Lieferzustand:

Delivery condition:

État de livraison:

Produktkennzeichnung:

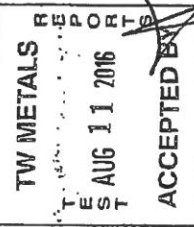
Product marking:

Marquage du produit:

FSD: BENTELER AMS6360M-AMS-T-6736 B 1-MIL-T-6736 B 1-AMS 2301J 4130 Condition N HEAT-NO.

CD AQ S DIMENSIONS WA GERMANY

AEZ = Ätzzeichenbeschriftung, Etching ink marking, Gravure à l'encre . EK = Farbmarkenzeichnung, color marking, marquage par couleur . FS = Farbschablonierung, paint stencilling, marquage par peinture . FSD = Farbschablonierung, Color jet printer, Impression à jet d'encre de couleur . LK = Lasermarkenzeichnung, Laser marking, Marquage laser . PKE = Etikettenmarkenzeichnung, tag marking, marquage sur étiquette . PS = Prägestempel, die stamp, marquage par poinçonnage . TS = Tintenstrahlmarkenzeichnung, Ink jet spray marking, Imprimante à jet d'encre .



Benteler Steel/Tube GmbH  
Postfach 13 40  
33043 Paderborn  
Deutschland  
Tel.: +49.5254.81-0 Fax: +49.5254.13666

**BENTELER**  
Steel/Tube

**ABNAHMEPRÜFZEUGNIS EN 10204-3.1**

INSPECTION CERTIFICATE EN 10204-3.1  
CERTIFICAT DE RECEPTION EN 10204-3.1

41-952074/001/P

Prüf-Nr.:  
Inspection No.:  
No. du certificat:

Blatt: 2 / 4  
Page:  
Page:

Pos.	Stück	Maße	Gesamtlänge	Gewicht	Schmelzen-Nr.	Prüfdruck	Rohr-Nr.-Gruppe	Vielfachlängen
Item	Number	Dimensions	Length total	Weight	Heat No.	Test pressure	Tube number group	Multiple lengths
Poste	Nombre	Dimensions	Longueur totale	Poids	No. de coulée	Pression d'épreuve	Série de no. des tubes	Longueurs multiples
0004	137	0.750" O.D. * 20 FT - 24 FT	3281,17 feet	1190 lbs	597607			

**Schmelzenanalyse [%] / Heat analysis [%] / Analyse sur coulée [%]**

Pos.	Schmelzen-Nr.	C	SI	MN	P	S	CR	MO	NI	CU
Item	Heat No.									
Poste	No. de coulée									
0004	597607	0,320	0,250	0,53	0,006	0,003	0,87	0,19	0,12	0,15

**Produktanalyse [%] / Product analysis [%] / Analyse sur produit [%]**

Pos.	Schmelzen-Nr.	C	SI	MN	P	S	CR	MO	NI	CU
Item	Heat No.									
Poste	No. de coulée									
0004	597607	0,310	0,250	0,50	0,006	0,002	0,88	0,18	0,11	0,14

**Prüfergebnisse / Test results / Résultats des essais**

Die Rohre wurden zerstörungsfrei geprüft:  
The tubes are non destructive tested:  
Les tubes ont passé un essai non destructif:

ET-test: acc. to ASTM-A 450; ET - Test method: acc. to ASTM-E 309; for imperfections;  
ET-test: ET with rotating pancake coils; according to EN 10246-3; imperfections;  
Notch depth: 0,30 mm; notch width < = notch depth; notch length min. 2 x transducer width (max. 50 mm)

Augsichtskontrolle: Visual inspection: Examen visuel:	PASSED	Materialverwechslungsprüfung: Material conformity test: Vérification de la nuance:	PASSED	Maßkontrolle: Dimensions examination: Vérification des dimensions:	PASSED
---	--------	--	--------	--	--------

**Ergebnisse der mechanischen Prüfung / Results of mechanical testing / Résultats des essais mécaniques**

Die Probenahme erfolgte an Vielfachlängen.  
The sampling was carried out on multiple lengths.  
L'échantillonnage était réalisé aux longueurs multiples.

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Steel/Tube

# ABNAHMEPRÜFZEUGNIS EN 10204-3.1

INSPECTION CERTIFICATE EN 10204-3.1

CERTIFICAT DE RECEPTION EN 10204-3.1

Dokument-Nr.: 41-952074/001/P

Document No.: No. du document:

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Zugversuch längs bei RT, Vollprobe / Tensile test longitudinal at RT, Full section test specimen / Essai de traction longitudinale à TA, Eprouvette a section complete

Pos.	Proben-Nr.	Schmelzen-Nr.	Probenabmessung	Streckgrenze	Zugfestigkeit	Dehnung
Item	Specimen No.	Heat No.	Specimen dimensions	Yield strength	Tensile strength	Elongation
Poste	No. de l'éprouv.	No. de coulée	Dimensions de l'éprouv.	Limite élastique	Résistance à la traction	Allongement
Anforderungen			mm	Rp 0,2 %	Rm	A2"
Requirements				KSI	KSI	%
Exigences				MIN 75	MIN 95	MIN 12.00
0004	000001	597607	19,00 X 1,25	115	126	19,00
0004	000002	597607	19,00 X 1,25	113	126	19,00
0004	000003	597607	19,00 X 1,25	112	127	18,00
0004	000004	597607	19,00 X 1,25	115	126	18,00
						1. Formel
						1. Formula
						1. Formule

Randentkohlung / Surface decarburization / Décarburation superficielle

Pos. / Item / Poste: 0004

partial decarburization outside max. 0.009 in, partial decarburization inside max. 0.009 in, partial decarburization outside and inside max. 0.012 in, partial decarburization outside and inside max. 0.305 mm, without total decarburization; partial decarb. out. max.: 0,229 mm; partial decarb. ins. max.: 0,229 mm

Vermerk / Remark / Remarque

Pos. / Item / Poste: 0004

Certificate remarks: The steel grade corresponds to MIL-T-6736B, AMS 6360M, material free from mercury contamination, FAR BAA: 52.225-1 CANNOT COMPLY, DFARS BAA: 252.225-7001 CAN COMPLY, FAR TAA: 52.225-5 CAN COMPLY, No weld repair has been carried out, Country of origin of the material and heat: Germany; see Attachment 1

Pos. / Item / Poste: 0004

Macroscopic examination: acc. to ASTM-E 381

Pos. / Item / Poste: 0004

Magnetic particle inspec.: acc. to AMS 2301 J/2640, on prematerial

Pos. / Item / Poste: 0004

Grain size: acc. to ASTM-E 112; Grain size and finer: 5; Grain size: Longitudinal structure micrography, On prematerial

Verkäufer(in) / Sales Personnel / Personne chargée : Mr Schwarz, Tel.: 05254 81-204311, Fax: 204391

Benteler Steel/Tube GmbH  
Postfach 13 40  
33043 Paderborn  
Deutschland  
Tel.: +49.5254.81-0 Fax: +49.5254.13666

**BENTELER**  
Steel/Tube

ABNAHMEPRÜFZEUGNIS EN 10204-3.1

INSPECTION CERTIFICATE EN 10204-3.1  
CERTIFICAT DE RECEPTION EN 10204-3.1

41-952074/001/P

Dokument-Nr.:  
Document No.:  
No. du document:

Prüf-Nr.:  
Inspection No.:  
No. du certificat:

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Page: 4 / 4

Paderborn-Schloß Neuhaus, 22.07.2016, TEL.: 05254.81-201765 FAX: 05254.81-201752

Abnahmebeauftragter  
Inspection representative

Contrôleur

i.A. THOMAS GOLLAN / GUT

Es wird bestätigt, daß die gefertigten Erzeugnisse den techn. Lieferbedingungen des Auftrages entsprechen. Dieses Dokument wurde mittels EDV erstellt und ist ohne Unterschrift rechtsgültig.  
We certify that the supplied products comply with the order specification. This document was prepared by means of electronic data processing and is valid without signature.  
Nous attestons que les produits livrés sont conformes aux stipulations de la commande. Ce document a été établi par traitement électronique de l'information et est valide sans signature.



Benteler Steel/Tube GmbH  
Residenzstraße 1  
33104 Paderborn  
Germany  
Tel.: 49.5254.81-0 Fax: 49.5254.13666

**BENTELER** 


Steel/Tube

Abnahmeprüfzeugnis EN 10204-3.1 / Anhang  
**Inspection Certificate EN 10204.3.1 / appendix**  
Certificat de réception EN 10204-3.1 / appendice

Dokument-Nr.  
**Document No.:** 41-952074/001/P  
No. de document:

Blatt: von  
**Page:** 1 of 1  
Page: de

Halbzeuguntersuchung: Stahlsorte 4130 / Semi finished product examination: grade 4130 / Produit semi-fini: nuance 4130

Schmelzen-Nr. Heat No. Coulée No.	Position Item Poste	Korngröße Grain size Grosseur de grain (ASTM-E 112)	Härtbarkeit (min. Anforderungen) Hardenability (min. requirements) Trempabilité (exigence min.) (ASTM-A 255)		Magnetpulverprüfung Magnetic particle inspection Essai à la poudre magnétique (AMS 2301J / 2640)		Makroätzung Macrostructure test Essai de macrostructure (ASTM-E 381)	
			J(5/16") min. 35 HRC	J(8/16") min. 28 HRC	F max. 0,34	S max. 0,25	max. S 2	max. R 1 max. C 2
597607	004	8	43	34	0,029	0,020	S 2	R 1 C 2
Decarburization Depth		Outside 0,020 mm Inside 0,050 mm						
 Steel/Tube GmbH								

Der Stahl ist frei von Quecksilberverunreinigungen. / The steel is free of mercury contamination. / L'acier est libre des contaminations de mercure.

  
Abnahmebeauftragter  
Inspection representative  
Contrôleur

Paderborn Schloß Neuhaus, 22.07.2016  
Tel.: (0)5254.81-201760 Fax: (0)5254.81-201752

Thomas Gollan



# PLYMOUTH TUBE CO. USA®

212 Industrial Park Road, Eupora, Mississippi 39744  
Phone: (662) 258-2420 Fax: (662) 258-2075

## PRODUCT CERTIFICATION

SALES ORDER - LINE / RLS

143275 - 1 / 3

### SHIP TO

TW Metals  
27 Englehard Drive  
Monroe Township, NJ 08831  
USA

WORK ORDER A43275  
HEAT NUMBER MM16101444  
MELT SOURCE Nucor Steel - USA Melt/Mfg

DAS  
9  
9-89



<b>CUSTOMER P.O.</b> M 49354259	<b>CUSTOMER PART</b> 33364	<b>QUANTITY</b> 2,697.0	<b>LADING NO</b> ft 00087888	<b>CERT ID / REV</b> 01	<b>CERT DATE</b> 08/15/2016
------------------------------------	-------------------------------	----------------------------	---------------------------------	----------------------------	--------------------------------

<b>PART DESCRIPTION</b>		H10001200J002
OD: 1.0000" Max: 1.0050" Min: 0.9950"		
Wall: 0.1200" Max: 0.1320" Min: 0.1080"		
Length: 20.00' / 24.00' Lgth Tol: RANDOM CUT LENGTH		
Lgth: 20.00' / 24.00'		
Spec: Mil-T 6736B Seamless Aircraft		
Grade: 4130		
Finish: Cond N		

**TW METALS**

TEST AUG 22 2016

REPORTS

ACCEPTED BY

**CERTIFICATION REQUIREMENTS**

This material was Eddy Current tested and conforms to the requirements of ASTM A-450.  
The Grain size is determined and reported by the raw material supplier in accordance to ASTM E-112.  
This raw material was magnetic particle inspected by the raw material supplier in accordance to AMS 2640J and/or ASTM E-1444, and rated as  
Frequency, and Severity to AMS 2301, latest revision.  
Yield is determined by using the 0.2% offset method.

**Chemical Analysis**

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Ti	Al	Sn
.31	.53	.008	.005	.23	.17	.13	1.04	.218	.0024	.002	.023	.007

**Physical Properties**

Freq.	Severity	Grain Size
.000	.000	6

**Mechanical Properties**

TEST	UNITS	#TESTS	HIGH	LOW	AVERAGE	STD-DEV
Tensile	Psi	3	107900	105700	107133	1242
Yield	Psi	3	100500	92100	97267	4521
Elongation	%	3	21	20	21	1

TEST	UNITS	#TESTS	HIGH	LOW	AVERAGE	STD-DEV
Decarb/OD						
Total ID/OD decarb						

TEST	UNITS	#TESTS	HIGH	LOW	AVERAGE	STD-DEV
Rockwell C	Rc	3	22	21	21	1
Rockwell B	Rb					

I certify that the results are a true and correct copy of the records prepared and maintained by Plymouth Tube Company, Eupora in compliance with the requirements of the cited specification. Chemistry is as reported by the Steel supplier. This test report cannot be reproduced or distributed except in full without the written permission of Plymouth Tube. Product free from hazardous materials.

*Mark S. Young*  
Quality Assurance



**PLYMOUTH TUBE CO. USA®**

212 Industrial Park Road, Eupora, Mississippi 39744  
Phone: (662) 258-2420 Fax: (662) 258-2075

## PRODUCT CERTIFICATION

SALES ORDER - LINE / RLS

143275 - 1 / 3

**SHIP TO**

TW Metals  
27 Englehard Drive  
Monroe Township, NJ 08831  
USA

WORK ORDER A43275  
HEAT NUMBER MM16101444  
MELT SOURCE Nucor Steel - USA Melt/Mfg



CUSTOMER P.O.	CUSTOMER PART	QUANTITY	LADING NO	CERT ID / REV	CERT DATE
M 49354259	33364	2,697.0 ft	00087888	01	08/15/2016
PART DESCRIPTION		H10001200J002			
Additional Specification(s)					
AMS-T6736 B, AMS 6360M					
<p>This test report data is for the heat Chemistry Stated above. Drawn in the USA</p> <p>—End of Certification—</p>					

I certify that the results are a true and correct copy of the records prepared and maintained by Plymouth Tube Company, Eupora in compliance with the requirements of the cited specification. Chemistry is as reported by the Steel supplier. This test report cannot be reproduced or distributed except in full without the written permission of Plymouth Tube. Product free from hazardous materials.

*Gregory Young*  
Quality Assurance

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M41301U70.750W.049

PO / BATCH NO.: 33636 / M135709

DATE: 16-09-21

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 241  
 QUANTITY INSPECTED: 241  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .750 x .049  
 THICKNESS RECEIVED: .750 x .049  
 SHEET SIZE ORDERED: 0  
 SHEET SIZE RECEIVED: 0

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	Y	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	Y	N	
CORRECT MATERIAL	Y	N	
CORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	N	
CORRECT MATERIAL	Y	N	
CORRECT REF # TO LINK CERT	Y	N	
CORRECT MATERIAL IDENTIFICATION	Y	N	
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u>	SIGNED OFF BY: _____		
DATE: <u>SEP 21 2016</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 160617612 00 00 125

PO / BATCH NO.: 1033636 / 1135709

DATE: 16-08-21

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: .125

QUANTITY RECEIVED: 24

THICKNESS RECEIVED: .123

QUANTITY INSPECTED: 24

SHEET SIZE ORDERED: N/A

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL	(Y) N	
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT MATERIAL	(Y) N	
CORRECT REF # TO LINK CERT	(Y) N	117# 22077534
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9</u> <u>9-89</u>	SIGNED OFF BY: _____
DATE: _____	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MM130111.000.120

PO / BATCH NO.: B33636 / M135709

DATE: 10-09-21

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: .120

QUANTITY RECEIVED: 21

THICKNESS RECEIVED: .120

QUANTITY INSPECTED: 21

SHEET SIZE ORDERED: N/A

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL	(Y) N	
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT MATERIAL	(Y) N	
CORRECT REF # TO LINK CERT	(Y) N	MM16101444
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>9</u> <u>9-80</u>	SIGNED OFF BY: _____
DATE: _____	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M4130UT0750W049

PO / BATCH NO.: P033636 / M135709

DATE: 12-09-21

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: .049

QUANTITY RECEIVED: 60 24

THICKNESS RECEIVED: .045

QUANTITY INSPECTED: 60 24

SHEET SIZE ORDERED: N/A

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL	(Y) N	
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT MATERIAL	(Y) N	AMS-T-6736
CORRECT REF # TO LINK CERT	(Y) N	HT 397607
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>9</u> DATE: <u>9-89</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in





Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO33636

Purchase Order Date 9/13/2016

PO Print Date 9/13/2016

Page Number 1 of 3

Order From :  
TW METALS  
PO BOX 933014  
ALTANTA, GA 31193-3014  
US

VU-TWM001

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

SEP 13 2016

Contact Name  
Vendor Phone 585 768 5600  
  
Ship To Contact  
Ship To Phone  
Ship Via: YRC COLLECT  
Ship Acct:

Buyer Chantal Lavoie  
Customer POID  
Customer Tax # 10127-2607  
Terms Net 30  
Currency USD  
FOB FCA - (Free Carrier)

E-MAILED

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M304TR0.750W.049 ✓	304 RD Tube .750 x .049W ✓	9/21/2016 Yes 9/21/2016		60.00 ✓ f	\$2.10	\$126.00

MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING  
AS PER ASTM A213 OR AMSE SA213 OR ASTM A269

Line Total: \$126.00

2	M4130NT0.750W.049 ✓	4130 RD Tube .750 x .049W ✓	9/21/2016 Yes 9/21/2016		20.00 f	\$6.00	\$120.00
---	---------------------	-----------------------------	-------------------------------	--	------------	--------	----------

MATERIAL: AIST 4130N SEAMLESS STEEL TUBING  
AS PER MIL-T-6736 OR AMS 6371/6360/6361  
6362/6373/6374

24 FT  
8/16 9-20

Line Total: \$120.00

Note:

9/13/2016



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO33636**

Purchase Order Date 9/13/2016

PO Print Date 9/13/2016

Page Number 2 of 3

**Order From :**  
TW METALS  
PO BOX 933014  
ALTANTA, GA 31193-3014  
US

VU-TWM001

**Ship To :** DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**  
**Vendor Phone** 585 768 5600

**Ship To Contact**  
**Ship To Phone**  
**Ship Via:** YRC COLLECT  
**Ship Acct:**

**Buyer** Chantal Lavoie  
**Customer POID**  
**Customer Tax #** 10127-2607  
**Terms** Net 30  
**Currency** USD  
**FOB** FCA - (Free Carrier)

3	M4130NT1.000W.120	4130 RD Tube 1.00 x .120 wall	9/21/2016	20.00	\$2.75	\$55.00
			Yes			
			9/21/2016			

MATERIAL: AISI 4130N SEAMLESS STEEL TUBING  
AS PER MIL-T-6736 OR AMS 6371/6360/6361  
6362/6373/6374

**Line Total:** \$55.00

4	M6061T6T2.00W0.125	6061T6 RD TUBE 2.00 X.125W	9/21/2016	24.00	\$8.50	\$204.00
			Yes			
			9/21/2016			

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING  
AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 OR  
AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR  
ASTM B241

**Line Total:** \$204.00

5	71400-15	304 round tubing 0.375" x .035" WALL (SEAMLESS)	9/21/2016	80.00	\$3.75	\$300.00
			Yes	Each		
			9/21/2016			

WELDING TEST

DAS  
9  
9-80

Note:

9/13/2016

Sp16-9-20



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO33636**

Purchase Order Date 9/13/2016

PO Print Date 9/13/2016

Page Number 3 of 3

**Order From :**

VU-TWM001

**Ship To :** DART AEROSPACE LTD

TW METALS  
PO BOX 933014  
ALTANTA, GA 31193-3014  
US

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone** 585 768 5600

**Ship To Contact**

**Ship To Phone**

**Ship Via:** YRC COLLECT

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #** 10127-2607

**Terms**

Net 30

**Currency**

USD

**FOB**

FCA - (Free Carrier)

**Line Total:** \$300.00

**Deliver To:** ERIC.L

6	71401-45	PROCUREMENT QUALITY CLAUSES	9/21/2016	1.00	✓	\$0.00	\$0.00
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No

**Procurement Quality Clauses**

9/21/2016

A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification  
A026 certification of material conformance  
A041 quality management system  
A042 dart notification by supplier  
A043 retention of quality documents

8216-9-20

**Line Total:** \$0.00

**PO Total:** \$805.00

CL

**Note:** Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.